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## PATENT ABSTRACTS OF JAPAN

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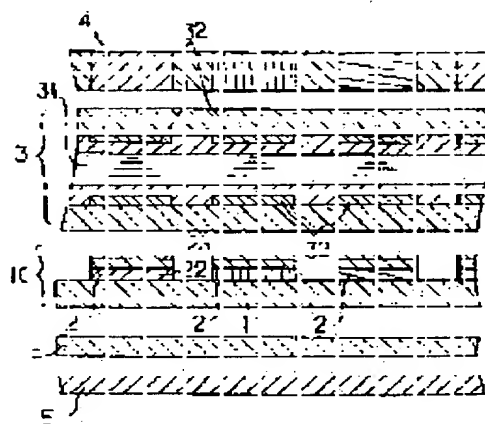
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## (54) LIQUID CRYSTAL DISPLAY DEVICE

## (57) Abstract:

PURPOSE: To provide a liquid crystal display device which is high in light utilization efficiency, capable of displaying clearly, and also capable of driving in high time-division. CONSTITUTION: A short pitch cholesteric liquid crystal layer 22 reflects a light of a particular wave length (for example, red) in a specified rotational direction, and transmits a light in reverse direction. Utilizing this property, a color selection means 10 is structured with the cholesteric liquid crystal layer 22 which is not provided with an electric field application means for display control to transmit circularly polarization in a specified direction of a light of a specified wave length, and reflects the circularly polarization in the direction opposite to the specified direction. Then a light transmitted or reflected by the color selection means 10 is transmitted through a liquid crystal layer 3 to switch over the polarization state by transmitting it as it is in circularly polarization by electric field or transforming into a straight polarization, etc. The transmitted light is led into a layer 4 to select a polarization mode, and display is made by displaying with a light of specified wave length or shielding all light beams.



## LEGAL STATUS

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